

Implementing Spatial Intelligence-Based Respond Method in the Physics Instruction to Improve Physics Learning Outcomes on the Lesson Subject of Straight Motion of the Tenth Grade Students of SMA N 1 Jogolagan in the First Semester

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Abstract

This study aims at determining influences of the spatial intelligence-based respond method towards physics learning outcomes on the subject of Straight Motion of the students of Grade X of SMA N 1 Jogonalan. This research also aims at determining whether the implementation of the spatial intelligence-based respond method was better or not when compared with the conventional teaching towards physics learning outcomes on the subject of Straight Motion of the tenth grade students of SMA N 1 Jogonalan. The learning outcomes covered cognitive and affective domains.

This research was apparent experimental study using pretest-posttest format and non-equivalent control group design. The sampling used was conditional non-random sampling. The research subject was the students of Grade X of SMA N 1 Jogonalan. This study involved two classes. The experimental class used the spatial intelligence-based respond method while the control class used the conventional method (presentation). Data analysis techniques used regression analysis and an analysis using t test. The testing technique of prerequisite analysis used Normality test, Homogeneity test, Linearity test, Autocorrelation test, Multi con linearity test, and *Hetero-skedaticity* test. Hypothesis testing technique used F test and t test.

Based on the research results, there were positive influences of the spatial intelligence-based respond method towards students' physics learning outcomes in the domains of cognitive and affective on the subject of Straight Motion of the tenth grade students of SMA N 1 Jogonalan. The research results also indicated that the teaching using the spatial intelligence-based respond method was better than one using the conventional method on physics learning outcomes in the domains of cognitive and affective on the subject of Straight Motion of the tenth grade students of SMA N 1 Jogonalan.

Keywords : response method, spatial intelligence, Straight motion
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